

DATA_TYPE BULLETIN IMS1.0

BGR Bulletin for Germany and adjacent areas

Event 90805007 E of Hasselt/B, Belgian-Dutch border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/08/05	21:18:37.00	0.06	0.55	50.9162	5.5830	1.2	0.9	146	10.0	0.0	116	31	110			m i ke	LDG	90805037
2009/08/05	21:18:36.81	0.53	0.52	50.9300	5.6270	6.7	3.3	089	10.0f		16	8	208	0.25	3.13	m i ke	BGR	90805027
2009/08/05	21:18:37.30	0.52	0.11	50.9180	5.6350				12.7	1.9		10	279			m i ke	GDNRW	90805017
2009/08/05	21:18:38.10	0.53	0.41	50.9190	5.6630				10.0f			20	281	0.40	1.40	m i ke	BNS	90805007

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MD	3.6	0.2	3 LDG	90805037
ML	3.2	0.3	35 LDG	90805037
ML	2.8	0.2	5 BGR	90805027
ML	2.4		GDNRW	90805017
ML	2.5		BNS	90805007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
HGN	0.23	132.3	Pg	21:18:42.430	-0.3					___					m_e
RWB	0.36	59.2	Pg	21:18:44.886	-0.2					___					mce
RWB	0.36	59.2	Sg	21:18:50.263	0.4					___		213.3	0.21		m_e
RODG	0.40	55.0	Pg	21:18:45.480	-0.3					T___					mce
RODG	0.40	55.0	Sg	21:18:51.050	0.0					T___		477.2	0.46		m_e
DREG	0.44	125.2	Pg	21:18:46.310	-0.3					T___					m_e
DREG	0.44	125.2	Sg	21:18:52.690	0.3					T___		316.2	0.46		m_e
GSH	0.49	111.8	Pg	21:18:47.352	-0.1					___					mce
GSH	0.49	111.8	Sg	21:18:54.194	0.3					___		112.3	0.15		m_e
KLL	0.49	123.3	Pg	21:18:47.200	-0.3					T___					m_e
KLL	0.49	123.3	Sg	21:18:54.180	0.2					T___		169.1	0.00		m_e
JCK	0.50	76.2	Pg	21:18:47.266	-0.4					___					m_e
JCK	0.50	76.2	Sg	21:18:54.286	0.1					___		438.4	0.15		m_e
OLF	0.64	131.3	Pg	21:18:49.838	-0.5					___					mde
OLF	0.64	131.3	Sg	21:18:58.740	0.1					___					m_e
OPLO	0.70	10.7	Pg	21:18:49.968	-1.5					___					m_e
OPLO	0.70	10.7	Sg	21:18:59.731	-0.8					___					m_e
PLH	0.73	82.9	Pg	21:18:51.340	-0.7					___					m_e
PLH	0.73	82.9	Sg	21:19:01.582	0.0					___		1334.1	0.17		m_e
STB	0.81	113.1	Pg	21:18:53.390	-0.1					T___					m_e
STB	0.81	113.1	Sg	21:19:04.340	0.3					T___		170.3	0.30		m_e
TDN	0.88	112.5	Pg	21:18:54.147	-0.6					___					m_e
TDN	0.88	112.5	Sg	21:19:06.178	-0.1					___		107.8	0.10		m_e
HILG	0.90	133.8	Pg	21:18:54.790	-0.3					T___					m_e
HILG	0.90	133.8	Sg	21:19:07.240	0.4					T___					m_e
LAUG	0.91	61.2	Pg	21:18:54.710	-0.7					T___					m_e
LAUG	0.91	61.2	Sg	21:19:07.800	0.6					T___					m_e
LOH	0.92	142.7	Pg	21:18:55.058	-0.5					___					m_e
LOH	0.92	142.7	Sg	21:19:07.109	-0.4					___		217.7	0.11		m_e
BNS	0.95	86.7	Pg	21:18:55.890	-0.3					T___					m_e
BNS	0.95	86.7	Sg	21:19:08.970	0.4					T___					m_e
AHRW	0.97	112.4	Pg	21:18:56.221	-0.3					___					m_e ML 2.7
AHRW	0.97	112.4	Sg	21:19:09.005	-0.1					___					m_e
WBS	1.03	95.7	Pg	21:18:56.980	-0.6					___					mde
WBS	1.03	95.7	Sg	21:19:10.470	-0.4					___		134.8	0.17		m_e

STB	0.97	182.0	Sg	05:43:12.660	1.6	---	47.5	0.27	m_e		
KLL	0.99	201.9	Pg	05:42:59.750	0.9	---			m_e		
KLL	0.99	201.9	Sg	05:43:13.820	2.2	---	60.0	0.27	m_e		
TDN	0.99	178.1	Pg	05:43:00.376	1.5	---			m_e		
TDN	0.99	178.1	Sg	05:43:14.084	2.4	---	34.5	0.13	m_e		
DREG	0.99	204.9	Pg	05:42:59.750	0.8	---			m_e		
DREG	0.99	204.9	Sg	05:43:13.640	1.9	---	111.5	0.18	m_e		
HGN	1.00	217.3	Pg	05:42:59.965	0.9	---			m_e		
HGN	1.00	217.3	Sg	05:43:14.362	2.3	---			m_e		
AHRW	1.03	173.5	Pg	05:43:01.258	1.6	---			m_e	ML	2.3
AHRW	1.03	173.5	Sg	05:43:15.479	2.5	---			m_e		
OLF	1.11	195.7	Pg	05:43:02.426	1.3	---			m_e		
OLF	1.11	195.7	Sg	05:43:17.576	2.0	---	6.5	0.16	m_e		
KOE	1.26	154.8	Pg	05:43:04.180	0.3	---			m_e		
KOE	1.26	154.8	Sg	05:43:21.890	1.8	---			m_e		
HILG	1.28	186.1	Pg	05:43:05.310	1.0	---			m_e		
HILG	1.28	186.1	Sg	05:43:21.800	0.9	---			m_e		
BGG	1.39	168.2	Pg	05:43:06.440	0.1	---			m_e		
TNS	1.66	143.3	Pn	05:43:11.272	1.6	---			m_e	ML	2.1
TNS	1.66	143.3	Sg	05:43:32.717	-0.3	---			m_e		
WLF	1.96	194.2	Pg	05:43:17.199	0.1	---			m_e	ML	2.2
WLF	1.96	194.2	Sg	05:43:40.970	-1.5	---			m_e		

Event 90807001 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/08/07	03:33:20.12	0.44	0.51	51.5330	16.1800	5.6	2.2	014	1.0f		24	15	213	0.69	3.64	m i ki	BGR	90807031

Magnitude	Err	Nsta	Author	OrigID
ML	3.9	0.4	15 BGR	90807031

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KSP	0.69	174.1	Pg	03:33:33.642	0.5					T_				m_e	ML 3.2
DPC	1.19	175.6	Pg	03:33:42.398	-0.1					T_				m_e	ML 4.1
DPC	1.19	175.6	Sg	03:33:57.820	0.0					T_				m_e	
BRG	1.55	245.7	Pn	03:33:47.390	-0.7					T_				m_e	ML 4.0
BRG	1.55	245.7	Sg	03:34:09.066	-0.3					T_				m_e	
FBE	1.87	252.0	Pn	03:33:52.019	-0.4					T_				m_e	ML 3.2
FBE	1.87	252.0	Sg	03:34:19.177	-0.4					T_				m_e	
MORC	1.96	153.3	Pn	03:33:53.983	0.4					T_				m_e	ML 3.5
CLL	1.99	264.8	Pn	03:33:53.448	-0.7					T_				m_e	ML 3.9
OKC	2.10	142.9	Pn	03:33:55.541	-0.1					T_				m_e	ML 3.9
OKC	2.10	142.9	Sg	03:34:26.263	-0.7					T_				m_e	
TANN	2.59	245.9	Pn	03:34:02.642	0.4					T_				m_e	ML 4.2
OJC	2.63	118.5	Pn	03:34:01.887	-0.9					T_				m_e	ML 4.1
OJC	2.63	118.5	Pg	03:34:09.708	-0.0					T_				m_e	
OJC	2.63	118.5	Sg	03:34:44.367	0.6					T_				m_e	
WERD	2.67	247.5	Pn	03:34:03.482	0.2					T_				m_e	ML 3.9
MOX	3.00	254.6	Pn	03:34:07.802	0.1					T_				m_e	ML 4.3
MOX	3.00	254.6	Pg	03:34:16.126	-0.5					T_				m_e	
MOX	3.00	254.6	Sg	03:34:56.075	0.6					T_				m_e	
MANZ	3.00	240.6	Pn	03:34:08.331	0.5					T_				m_e	ML 4.2

MANZ	3.00	240.6	Pg	03:34:17.065	0.3	T__	m_e	
ROTZ	3.08	236.5	Pn	03:34:09.028	0.3	T__	m_e ML	3.9
WET	3.19	222.7	Pn	03:34:10.543	0.3	T__	m_e ML	3.9
GRA1	3.64	241.6	Pn	03:34:17.402	0.9	T__	m_e ML	4.5

Event 90807002 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/08/07	04:49:03.82	0.42	0.69	51.4960	16.1340	5.6	2.2	010	1.0f		28	16	211	0.66	3.60	m i ki	BGR	90807032

Magnitude	Err	Nsta	Author	OrigID
ML	3.3	0.4	16 BGR	90807032

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KSP	0.66	171.2	Pg	04:49:16.029	-0.2					T__				m_e ML	2.8
DPC	1.15	174.0	Pg	04:49:24.786	-0.7					T__				m_e ML	3.4
DPC	1.15	174.0	Sg	04:49:41.137	0.7					T__				m_e	
BRG	1.51	246.5	Pn	04:49:30.984	-0.2					T__				m_e ML	3.2
BRG	1.51	246.5	Sg	04:49:52.178	0.5					T__				m_e	
FBE	1.83	252.8	Pn	04:49:37.516	1.9					T__				m_e ML	2.4
FBE	1.83	252.8	Sg	04:50:01.860	-0.2					T__				m_e	
MORC	1.94	152.0	Pn	04:49:36.426	-0.6					T__				m_e ML	2.9
MORC	1.94	152.0	Sg	04:50:05.260	-0.1					T__				m_e	
CLL	1.96	265.7	Pn	04:49:36.388	-1.0					T__				m_e ML	3.2
OKC	2.09	141.6	Pn	04:49:38.442	-0.7					T__				m_e ML	3.3
TANN	2.55	246.4	Pn	04:49:45.601	0.2					T__				m_e ML	3.6
TANN	2.55	246.4	Pg	04:49:51.616	-0.3					T__				m_e	
TANN	2.55	246.4	Sg	04:50:24.589	-0.3					T__				m_e	
WERD	2.63	248.0	Pn	04:49:46.514	0.1					T__				m_e ML	3.4
WERD	2.63	248.0	Pg	04:49:53.013	-0.3					T__				m_e	
OJC	2.64	117.5	Pg	04:49:52.930	-0.7					T__				m_e ML	3.4
OJC	2.64	117.5	Sg	04:50:28.784	1.1					T__				m_e	
MANZ	2.96	240.9	Pn	04:49:51.393	0.5					T__				m_e ML	3.6
MOX	2.96	255.1	Pg	04:49:58.700	-1.0					T__				m_e ML	3.7
MOX	2.96	255.1	Sg	04:50:38.494	0.5					T__				m_e	
ROTZ	3.03	236.8	Pn	04:49:52.270	0.4					T__				m_e ML	3.2
ROTZ	3.03	236.8	Sg	04:50:40.800	0.7					T__				m_e	
GEC2	3.07	211.4	Pn	04:49:53.300	0.9					T__				m_e ML	3.5
GEC2	3.07	211.4	Sg	04:50:40.906	-0.6					T__				m_e	
WET	3.14	222.7	Pn	04:49:53.801	0.5					T__				m_e ML	3.4
GRA1	3.60	241.9	Pn	04:49:59.709	0.1					T__				m_e ML	4.0
GRA1	3.60	241.9	Sg	04:50:58.728	0.5					T__				m_e	

Event 90810003 Duisburg, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	
2009/08/10	07:40:42.70	0.24	0.76	51.5405	6.8862	4.4	3.2	049	1.0f		31	17	281			m i sr	LDG	90810043	
2009/08/10	07:40:43.20	0.48	0.21	51.5150	6.8840				1.0f				6	306	0.17	1.34	m i ki	BNS	90810033
2009/08/10	07:40:41.90	0.42	0.11	51.5560	6.9160				1.0f				9	240			m i ki	GDNRW	90810023
2009/08/10	07:40:42.68	0.33	0.73	51.5440	6.8630	4.4	3.3	108	1.0f		14	8	138	0.27	2.21	m i ki	BGR	90810013	

90810003

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ZERL	0.07	355.7	Pg	07:40:42.300	-0.6					T__				m__	ML	2.0
ZERL	0.07	355.7	Sg	07:40:43.400	-0.4					T__				m__		
LAUG	0.20	168.4	Pg	07:40:46.510	1.1					___				m_e		
LAUG	0.20	168.4	Sg	07:40:49.150	1.1					___		203.4	0.29	m_e		
BUG	0.27	114.2	Pg	07:40:47.700	1.1					TA_				m_e	ML	2.1
BUG	0.27	114.2	Sg	07:40:52.100	2.0					TA_				m__		
PLH	0.55	183.9	Pg	07:40:52.837	0.9					___				m_e		
PLH	0.55	183.9	Sg	07:41:00.628	1.6					___		223.9	0.17	m_e		
JCK	0.59	208.6	Pg	07:40:53.695	1.0					___				m_e		
JCK	0.59	208.6	Sg	07:41:02.050	1.8					___		218.2	0.16	m_e		
HOBG	0.64	153.1	Pg	07:40:54.760	1.2					___				m_e		
HOBG	0.64	153.1	Sg	07:41:03.150	1.4					___				m_e		
RWB	0.64	225.4	Sg	07:41:04.130	2.3					___		140.3	0.13	m_e		
SOR	0.71	106.0	Pg	07:40:55.470	0.5					___				m_e		
SOR	0.71	106.0	Sg	07:41:05.065	0.9					___		49.1	0.14	m_e		
WBS	0.79	161.0	Pg	07:40:57.169	0.7					___				m_e		
WBS	0.79	161.0	Sg	07:41:07.908	1.3					___		73.6	0.12	m_e		
GSH	0.87	201.2	Pg	07:40:58.947	0.9					___				m_e		
GSH	0.87	201.2	Sg	07:41:11.107	1.8					___		52.0	0.19	m_e		
IBBN	0.93	35.4	Pg	07:40:58.980	-0.2					___				m_e	ML	2.7
IBBN	0.93	35.4	Sg	07:41:13.621	2.5					___				m_e		
STB	0.96	181.4	Pg	07:41:00.940	1.3					___				m_e		
STB	0.96	181.4	Sg	07:41:13.680	1.7					___		90.8	0.29	m_e		
DREG	0.98	204.8	Pg	07:41:01.010	1.0					___				m_e		
HGN	0.99	217.4	Pg	07:41:01.200	1.0					___				m_e		
HGN	0.99	217.4	Sg	07:41:14.293	1.4					___				m_e		
AHRW	1.02	172.9	Pg	07:41:02.259	1.5					___				m_e	ML	2.5
AHRW	1.02	172.9	Sg	07:41:15.721	1.8					___				m_e		
OLF	1.10	195.4	Pg	07:41:03.166	0.9					___				m_e		
OLF	1.10	195.4	Sg	07:41:18.282	1.9					___		12.4	0.20	m_e		
BHE	1.21	170.9	Pg	07:41:05.345	0.9					___				m_e		
BHE	1.21	170.9	Sg	07:41:21.233	1.1					___		62.3	0.14	m_e		
KOE	1.25	154.1	Pg	07:41:05.620	0.5					___				m_e		
HILG	1.27	185.8	Pg	07:41:06.270	0.8					___				m_e		
WIT	1.27	354.3	Sg	07:41:23.558	1.6					___				m_e		
BGG	1.38	167.7	Pg	07:41:07.420	-0.1					___				m_e		
LOH	1.39	189.1	Pg	07:41:07.879	0.2					___				m_e		
TNS	1.66	142.7	Pn	07:41:12.602	1.6					___				m_e	ML	2.3
TNS	1.66	142.7	Sg	07:41:34.963	0.7					___				m_e		
WLF	1.94	194.0	Pg	07:41:18.738	0.5					___				m_e	ML	2.4
WLF	1.94	194.0	Sg	07:41:42.978	-0.3					___				m_e		
NRDL	2.20	63.3	Pg	07:41:23.762	0.7									m_e		

Event 90811005 Simmern/Hunsrueck

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/08/11	18:54:42.40	0.06	0.39	49.9215	7.3967	1.3	1.0	083	10.0f		35	12	042			m i ke	LDG	90811025
2009/08/11	18:54:42.12	0.31	0.56	49.8740	7.4390	3.3	3.3	139	5.0f		12	7	098	0.71	1.89	m i ke	BGR	90811015
2009/08/11	18:54:43.80	0.46	0.21	49.9870	7.4110				9.8	3.4		6	278	0.22	1.01	m i ke	BNS	90811005

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
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MD	2.6	0.1	2 LDG	90811025
ML	2.6	0.2	9 LDG	90811025
ML	1.8	0.2	6 BGR	90811015
ML	1.4		BNS	90811005

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BGG	0.22	347.8	Pg	18:54:48.530	0.2					T__				m_e	
BGG	0.22	347.8	Sg	18:54:51.780	0.3					T__		110.6	0.11	m_e	
KOE	0.48	25.0	Pg	18:54:52.780	-0.3					T__				m_e	
KOE	0.48	25.0	Sg	18:55:00.040	0.6					T__		59.4	0.46	m_e	
HILG	0.56	303.3	Pg	18:54:54.720	0.2					T__				m_e	
HILG	0.56	303.3	Sg	18:55:02.220	0.4					T__		18.2	0.44	m_e	
AHRW	0.59	339.0	Pg	18:54:56.006	0.9					---				m_e ML	1.9
AHRW	0.59	339.0	Sg	18:55:04.419	1.5					---				m_e	
TNS	0.71	70.1	Pg	18:54:56.734	-0.5					---				m_e ML	2.0
TNS	0.71	70.1	Sg	18:55:06.366	-0.0					---				m_e	
STB	0.71	329.2	Pg	18:54:56.940	-0.3					T__				m_e	
STB	0.71	329.2	Sg	18:55:06.270	-0.2					T__		11.8	0.34	m_e	
WLF	0.87	248.8	Pg	18:54:58.206	-2.1					---				m_e ML	1.8
WLF	0.87	248.8	Sg	18:55:09.498	-2.2					---				m_e	
HOBG	1.00	357.2	Pg	18:55:02.260	-0.4					T__				m_e	
HOBG	1.00	357.2	Sg	18:55:15.800	0.2					T__		21.3	0.40	m_e	
DREG	1.01	312.4	Pg	18:55:02.240	-0.7					T__				m_e	
DREG	1.01	312.4	Sg	18:55:15.810	-0.2					T__		7.4	0.90	m_e	
HGN	1.22	310.0	Pg	18:55:07.201	0.3					---				m_e	
BUG	1.46	356.5	Sg	18:55:31.557	1.4					---				m_e ML	1.8
BFO	1.76	159.7	Pg	18:55:13.992	-3.1					---				m_e ML	1.6
BFO	1.76	159.7	Sg	18:55:33.876	-6.0					---				m_e	
UBBA	1.85	62.3	Pg	18:55:17.179	-1.5					---				m_e ML	1.5
UBBA	1.85	62.3	Sg	18:55:41.641	-0.9					---				m_e	

Event 90812002 Duisburg, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/08/12	02:39:54.20	0.19	0.35	51.5246	6.8387	3.3	2.3	048	1.0f		28	17	283			m i sr	LDG	90812042
2009/08/12	02:39:54.10	0.42	0.11	51.5280	6.8800				1.0f			8	307	0.18	1.35	m i ki	BNS	90812032
2009/08/12	02:39:53.40	0.49	0.11	51.5470	6.9080				1.0f			6	283			m i ki	GDNRW	90812022
2009/08/12	02:39:54.13	0.33	1.12	51.5680	6.8080	6.7	4.4	105	1.0f		13	8	141	0.31	1.95	m i ki	BGR	90812012
2009/08/12	02:39:52.70			51.5430	6.8710				1.0f				247	0.08	0.27	m i ki	BUG	90812002

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.6	0.3	12 LDG	90812042
ML	1.9		BNS	90812032
ML	1.9		GDNRW	90812022
ML	2.1	0.1	5 BGR	90812012
ML	1.8		BUG	90812002

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ZERL	0.08	359.3	Pg	02:39:53.500	-0.7					T__				m__	ML	1.8
ZERL	0.08	359.3	Sg	02:39:55.000	-0.2					T__				m__		
LAUG	0.20	166.6	Pg	02:39:57.670	1.2									m_e		
LAUG	0.20	166.6	Sg	02:40:00.700	1.7							113.0	0.51	m_e		
BUG	0.27	112.3	Pg	02:39:58.800	1.0					TA_				mde	ML	1.8
BUG	0.27	112.3	Sg	02:40:03.200	2.0					TA_				m__		
WTSB	0.43	354.0	Pg	02:40:00.604	-0.1									m_e		
ENT	0.45	131.6	Pg	02:40:02.244	1.0									m_e		
ENT	0.45	131.6	Sg	02:40:08.833	1.8									m_e		
PLH	0.54	183.4	Pg	02:40:04.154	1.3									m_e		
PLH	0.54	183.4	Sg	02:40:11.678	1.8							84.3	0.32	m_e		
JCK	0.58	208.6	Sg	02:40:13.433	2.4							121.8	0.16	m_e		
HOBG	0.63	152.5	Pg	02:40:05.880	1.3									m_e		
HOBG	0.63	152.5	Sg	02:40:14.480	1.8									m_e		
WBS	0.78	160.5	Pg	02:40:08.521	1.1									m_e		
WBS	0.78	160.5	Sg	02:40:19.304	1.8							31.8	0.17	m_e		
GSH	0.86	201.1	Pg	02:40:10.654	1.7									m_e		
GSH	0.86	201.1	Sg	02:40:22.586	2.4							21.8	0.08	m_e		
IBBN	0.94	35.3	Pg	02:40:11.555	1.2									m_e	ML	2.2
IBBN	0.94	35.3	Sg	02:40:26.058	3.5									m_e		
STB	0.95	181.2	Pg	02:40:12.070	1.5									m_e		
KLL	0.96	201.6	Pg	02:40:12.030	1.2									m_e		
DREG	0.97	204.7	Pg	02:40:12.370	1.4									m_e		
TDN	0.97	177.2	Sg	02:40:25.331	1.8							32.1	0.13	m_e		
HGN	0.98	217.5	Pg	02:40:12.438	1.3									m_e		
HGN	0.98	217.5	Sg	02:40:26.800	3.1									m_e		
AHRW	1.01	172.6	Pg	02:40:13.867	2.1									m_e	ML	2.2
AHRW	1.01	172.6	Sg	02:40:29.027	4.2									m_e		
KOE	1.24	153.8	Pg	02:40:16.840	0.7									m_e		
HILG	1.26	185.6	Pg	02:40:16.900	0.5									m_e		
WIT	1.28	354.5	Pg	02:40:17.666	0.9									m_e		
BGG	1.37	167.4	Pg	02:40:18.620	0.1									m_e		
BGG	1.37	167.4	Sg	02:40:36.330	0.1									m_e		
TNS	1.65	142.4	Pg	02:40:26.422	2.6									m_e	ML	2.1
TNS	1.65	142.4	Sg	02:40:48.416	3.2									m_e		
WLF	1.93	193.9	Pg	02:40:30.195	1.1									m_e	ML	2.2
WLF	1.93	193.9	Sg	02:40:54.122	0.0									m_e		

Event 90812007 Vaduz/Liechtenstein, Swiss-Liechtenstein-Austrian border reg																		
Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/08/12	13:52:28.70	0.14	0.86	47.2111	9.3977	2.8	2.5	103	5.0f		61	18	034			m i ke	LDG	90812047
2009/08/12	13:52:28.50	0.97	1.63	47.2153	9.3437	6.5	3.7	121	3.0	0.0	45	11	087			m i uk	ZAMG	90812037
2009/08/12	13:52:27.80			47.2000	9.4000				-1.0							m i uk	SED	90812027

2009/08/12 13:52:29.94	0.29	1.17	47.1700	9.3150	6.7	3.3	020	10.0f		22	14	119	0.13	3.37	m i ke BGR	90812017
2009/08/12 13:52:29.10	0.30	0.26	47.1900	9.3400	3.0	2.0	004	7.0	1.0	36	16	204	0.56	3.09	m i ke LED	90812007
#PRIME)																

Magnitude	Err	Nsta	Author	OrigID
ML	3.3	0.1	13 LDG	90812047
ML	3.1	0.3	13 ZAMG	90812037
ML	2.9		SED	90812027
ML	3.0	0.4	14 BGR	90812017
ML	3.1	0.2	14 LED	90812007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
PLONS	0.14	168.8	Pg	13:52:31.358	-0.7					---				m_e	ML 1.8
PLONS	0.14	168.8	Sg	13:52:34.479	0.4					---				m_e	
WILA	0.37	307.6	Pg	13:52:36.462	0.3					---				m_e	ML 3.0
WILA	0.37	307.6	Sg	13:52:42.670	1.7					---				m_e	
DAVA	0.38	75.0	Pg	13:52:35.871	-0.5					---				m_e	ML 2.8
DAVA	0.38	75.0	Sg	13:52:42.511	1.2					---				m_e	
SISB	0.56	333.0	P*	13:52:39.940						T_				mdi	ML 2.7
SISB	0.56	333.0	S*	13:52:48.260						T_				m_	
OBER	0.68	71.1	P*	13:52:42.170						T_				md_	ML 2.8
UBR	0.71	46.4	P*	13:52:42.990						T_				mci	ML 3.4
UBR	0.71	46.4	PmP	13:52:45.580	0.3					T_				m_i	
UBR	0.71	46.4	S*	13:52:53.620						T_				m_	
UBR	0.71	46.4	SmS	13:52:58.240	1.8					T_				m_i	
SLE	0.81	315.5	Pg	13:52:44.428	-0.0					---				m_e	ML 2.9
SLE	0.81	315.5	Sg	13:52:55.771	0.8					---				m_e	
GUT	0.89	350.3	P*	13:52:45.820						T_				mdi	ML 3.2
GUT	0.89	350.3	PmP	13:52:47.340	-0.9					T_				mci	
GUT	0.89	350.3	S*	13:52:58.400						T_				m_	
GUT	0.89	350.3	SmS	13:53:00.720	-0.6					T_				m_	
SULZ	0.90	292.6	Pg	13:52:46.380	0.3					---				m_e	ML 3.0
SULZ	0.90	292.6	Sg	13:52:59.113	1.4					---				m_e	
SPAK	0.99	337.9	P*	13:52:47.700						T_				md_	
BALST	1.13	278.1	Sg	13:53:06.844	1.9					---				m_e	ML 2.8
FELD	1.13	307.8	P	13:52:50.330						T_				md_	
KIZ	1.23	309.1	P	13:52:51.660						T_				md_	ML 3.1
KIZ	1.23	309.1	Pg	13:52:52.260	-0.0					---				m_	
KIZ	1.23	309.1	PmP	13:52:52.560	-1.4					T_				m_i	
KIZ	1.23	309.1	Sg	13:53:08.940	0.8					T_				m_	
BUCH	1.26	0.4	P	13:52:51.980						T_				md_	ML 3.2
BUCH	1.26	0.4	Pg	13:52:53.100	0.2					T_				m_	
BUCH	1.26	0.4	S	13:53:09.460						T_				m_	
BBS	1.27	283.1	P	13:52:53.020						T_				m_	
BFO	1.33	329.6	P	13:52:53.050						T_				mdi	ML 2.9
BFO	1.33	329.6	Pg	13:52:54.100	-0.0					T_				m_	
BFO	1.33	329.6	Sg	13:53:12.300	1.0					T_				m_	
TUBL	1.34	352.7	P	13:52:54.080						T_				m_	ML 3.1
TUBL	1.34	352.7	S	13:53:10.520						T_				m_	
HDH	1.51	22.3	Pg	13:52:56.620	-1.0					---				m_	ML 3.4
HDH	1.51	22.3	S	13:53:14.930						T_				m_	
HDH	1.51	22.3	Sg	13:53:17.940	0.8					T_				m_	
LBG	1.52	346.3	P	13:52:55.380						T_				md_	ML 3.3
LBG	1.52	346.3	PmP	13:52:57.760	-1.3					---				m_	

LBG	1.52	346.3	S	13:53:14.660			m		
LBG	1.52	346.3	Sg	13:53:18.180	0.8	T	m		
WTTA	1.56	86.4	Pn	13:52:58.326	1.8		m_e	ML	3.1
WTTA	1.56	86.4	Sg	13:53:21.623	2.9		m_e		
STU	1.58	356.5	Pn	13:52:58.934	2.1		m_e	ML	3.2
STU	1.58	356.5	Sg	13:53:19.990	0.5		m		
FUR	1.63	52.5	Pn	13:52:59.631	2.2		m_e	ML	3.3
MOF	1.63	294.7	P	13:52:57.800		T	m		
LOMF	1.71	276.3	P	13:52:59.940		T	m		
ECH	1.79	305.7	P	13:52:59.700		T	mc	ML	3.1
ECH	1.79	305.7	Pg	13:53:04.150	1.3	T	m_i		
ECH	1.79	305.7	S	13:53:20.900		T	m		
ECH	1.79	305.7	Sg	13:53:26.250	0.2		m		
SIND	2.17	4.6	P	13:53:03.650		T	mc	ML	3.0
SIND	2.17	4.6	S	13:53:29.730		T	m		
SIND	2.17	4.6	Sg	13:53:37.950	0.0		m		
KBA	2.73	90.9	Pn	13:53:15.622	3.3		m_e	ML	3.0
WET	3.06	49.1	Pn	13:53:16.905	0.0		m_e	ML	3.4
TNS	3.09	349.3	P	13:53:17.330			mc	ML	2.8
ROTZ	3.20	35.3	Pn	13:53:19.836	1.1		m_e	ML	3.3
MANZ	3.34	32.2	Pn	13:53:20.230	-0.4		m_e	ML	3.3

Event 90813007 Duisburg, Ruhr Coal Mining District

Magnitude	Err	Nsta	Author	OrigID
ML	2.2		BNS	90813037
ML	1.7		GDNRW	90813027
ML	2.2	0.2	5 BGR	90813017
ML	1.8		BUG	90813007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ZERL	0.07	352.4	Pg	12:58:42.200	-0.7					T__				m__	ML	1.8
ZERL	0.07	352.4	Sg	12:58:43.600	-0.2					T__				m__		
LAUG	0.20	169.5	Pg	12:58:46.480	1.2					___				m_e		
LAUG	0.20	169.5	Sg	12:58:50.180	2.3					___				m_e		
BUG	0.26	114.2	Pg	12:58:47.500	1.0					TA_				mde	ML	1.8
BUG	0.26	114.2	Sg	12:58:51.900	2.0					TA_				m__		
WTSB	0.42	352.8	Pg	12:58:49.372	-0.1					___				m_e		
ENT	0.45	132.9	Pg	12:58:50.981	1.0					___				m_e		
ENT	0.45	132.9	Sg	12:58:57.564	1.8					___		39.2	0.10	m_e		
PLH	0.55	184.3	Pg	12:58:52.863	1.1					___				m_e		
PLH	0.55	184.3	Sg	12:59:00.316	1.5					___		114.1	0.15	m_e		
BNS	0.61	162.6	Pg	12:58:54.760	1.7					___				m_e		
BNS	0.61	162.6	Sg	12:59:03.480	2.5					___				m_e		
HOBG	0.63	153.4	Pg	12:58:54.830	1.4					___				m_e		

OKC	2.12	140.4	Pn	03:58:29.104	-0.7	T__	m_e	ML	3.6
OKC	2.12	140.4	Pg	03:58:33.587	-0.4	T__	m_e		
OKC	2.12	140.4	Sg	03:59:00.545	-0.8	T__	m_e		
TANN	2.50	246.0	Pn	03:58:35.446	0.4	T__	m_e	ML	3.7
TANN	2.50	246.0	Pg	03:58:41.700	0.4	T__	m_e		
TANN	2.50	246.0	Sg	03:59:13.227	-0.4	T__	m_e		
WERD	2.58	247.7	Pn	03:58:36.257	0.2	T__	m_e	ML	3.6
WERD	2.58	247.7	Pg	03:58:42.172	-0.5	T__	m_e		
WERD	2.58	247.7	Sg	03:59:16.253	0.2	T__	m_e		
OJC	2.68	116.8	Sg	03:59:20.285	1.0	T__	m_e	ML	3.7
MOX	2.91	254.9	Pn	03:58:40.638	0.1	T__	m_e	ML	4.1
MOX	2.91	254.9	Pg	03:58:48.228	-0.8	T__	m_e		
MOX	2.91	254.9	Sg	03:59:26.988	0.4	T__	m_e		
MANZ	2.91	240.5	Pn	03:58:41.047	0.5	T__	m_e	ML	3.8
MANZ	2.91	240.5	Pg	03:58:49.881	0.9	T__	m_e		
MANZ	2.91	240.5	Sg	03:59:27.173	0.5	T__	m_e		
ROTZ	2.99	236.3	Pn	03:58:42.252	0.7	T__	m_e	ML	3.7
ROTZ	2.99	236.3	Sg	03:59:27.555	-1.4	T__	m_e		
GEC2	3.04	210.6	Pn	03:58:43.046	0.8	T__	m_e	ML	3.7
GEC2	3.04	210.6	Pg	03:58:50.796	-0.6	T__	m_e		
GEC2	3.04	210.6	Sg	03:59:30.607	-0.1	T__	m_e		
WET	3.10	222.1	Pn	03:58:43.796	0.7	T__	m_e	ML	3.6
WET	3.10	222.1	Sg	03:59:32.769	0.2	T__	m_e		
GRA1	3.55	241.5	Pn	03:58:50.037	0.8	T__	m_e		
GRA1	3.55	241.5	Sg	03:59:47.020	0.0	T__	m_e		

Event 90814007 Duisburg, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/08/14	23:51:56.80	0.13	0.22	51.4986	6.8252	2.4	1.7	037	1.0f		23	14	282			m i sr	LDG	90814037
2009/08/14	23:51:56.50	0.68	0.21	51.5130	6.8370				1.2	11.6		7	281	0.55	1.34	m i ki	BNS	90814027
2009/08/14	23:51:55.97	0.22	1.15	51.5700	6.8590	4.4	3.3	076	1.0f		22	15	081	0.29	3.71	m i ki	BGR	90814017
2009/08/14	23:51:54.90			51.5490	6.8780				1.0f				241	0.07	0.27	m i ki	BUG	90814007

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.6	0.2	9 LDG	90814037
ML	1.8		BNS	90814027
ML	2.1	0.2	8 BGR	90814017
ML	1.7		BUG	90814007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ZERL	0.07	355.8	Pg	23:51:55.600	-0.7					T__				m__	ML 1.8
ZERL	0.07	355.8	Sg	23:51:57.200	0.0					T__				m__	
BUG	0.27	113.8	Pg	23:52:01.000	1.1					TA__				mde	ML 1.7
BUG	0.27	113.8	Sg	23:52:05.400	2.0					TA__				m__	
WTSB	0.42	353.3	Pg	23:52:02.795	-0.0					___				m_e	
WTSB	0.42	353.3	Sg	23:52:08.479	0.2					___				m_e	
RODG	0.59	227.4	Pg	23:52:06.790	0.7					___				m_e	
OPLO	0.63	275.8	Pg	23:52:08.932	2.2					___				m_e	
OPLO	0.63	275.8	Sg	23:52:14.360	-0.5					___				m_e	
HOBG	0.63	153.1	Pg	23:52:08.130	1.3					___				m_e	

IBBN	0.93	35.3	Pg	23:52:12.359	-0.1	_____	m_e	ML	2.2
STB	0.96	181.4	Pg	23:52:14.120	1.2	_____	m_e		
STB	0.96	181.4	Sg	23:52:26.660	1.4	_____	38.9	0.56	m_e
KLL	0.97	201.7	Pg	23:52:14.300	1.1	_____	m_e		
DREG	0.97	204.8	Pg	23:52:14.570	1.3	_____	m_e		
HGN	0.98	217.5	Pg	23:52:14.602	1.2	_____	m_e		
HGN	0.98	217.5	Sg	23:52:28.680	2.5	_____	m_e		
AHRW	1.02	172.9	Pg	23:52:15.818	1.8	_____	m_e	ML	2.1
AHRW	1.02	172.9	Sg	23:52:29.956	2.8	_____	m_e		
KOE	1.25	154.1	Pg	23:52:18.890	0.5	_____	m_e		
WIT	1.27	354.3	Pg	23:52:19.695	0.8	_____	m_e		
WIT	1.27	354.3	Sg	23:52:36.793	1.5	_____	m_e		
BGG	1.37	167.6	Pg	23:52:21.140	0.3	_____	m_e		
TNS	1.66	142.7	Pn	23:52:26.139	1.9	_____	m_e	ML	2.1
WLF	1.94	194.0	Pg	23:52:31.530	0.1	_____	m_e	ML	2.1
WLF	1.94	194.0	Sg	23:52:56.525	-0.0	_____	m_e		
UBBA	2.09	109.2	Pn	23:52:33.740	3.6	_____	m_e		
NRDL	2.20	63.3	Pg	23:52:37.309	0.9	_____	m_e		
MOX	3.11	105.1	Sg	23:53:33.478	-0.2	_____	m_e	ML	2.5
GRA1	3.32	122.3	Sg	23:53:44.710	4.3	_____	m_e	ML	2.3
BFO	3.35	163.3	Sg	23:53:43.002	1.6	_____	m_e	ML	2.2
TANN	3.69	105.7	Pn	23:52:53.352	1.4	_____	m_e		

Event 90815001 Landau i.d. Pfalz, NW of Karlsruhe

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/08/15	12:10:54.00	0.42	0.21	49.2480	8.1160				5.0f			3	341	1.08	1.86	m i ki	BNS	90815031
2009/08/15	12:10:52.10	0.05	0.76	49.2035	8.0703	1.1	0.9	145	10.0	0.0	86	20	038			m i ke	LDG	90815021
2009/08/15	12:10:51.88	0.19	0.78	49.2070	8.1060	2.2	1.1	124	3.0f		56	27	077	0.84	4.10	m i ki	BGR	90815011
2009/08/15	12:10:52.49	0.06	0.21	49.1910	8.1220	0.9	0.6	094	2.5	1.5	49	24	065	0.13	3.77	m i ki	LED	90815001

(#PRIME)

(correlated with geothermal plant in Landau)

Magnitude	Err	Nsta	Author	OrigID
ML	2.1		BNS	90815031
MD	3.0	1	LDG	90815021
ML	3.1	0.3	19 LDG	90815021
ML	2.6	0.2	18 BGR	90815011
ML	2.7	0.2	22 LED	90815001

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KTD	0.13	349.1	P*	12:10:55.250						T__				md__	
PEB	0.29	245.0	P*	12:10:58.190						T__				md__	ML 2.4
PEB	0.29	245.0	S*	12:11:02.560						T__				m__	
LANF	0.30	224.7	P*	12:10:58.200						T__				md__	
LANF	0.30	224.7	S*	12:11:02.330						T__				m__	
IMS	0.43	340.4	P*	12:11:00.580						T__				md__	
IMS	0.43	340.4	S*	12:11:06.660						T__				m__	
SWS	0.48	51.9	P*	12:11:01.620						T__				mci	ML 2.4
SWS	0.48	51.9	S*	12:11:08.420						T__				m__	
TOD	0.61	46.7	P*	12:11:03.900						T__				mc__	
TOD	0.61	46.7	PmP	12:11:05.400	-2.1					_____				m__	

TOD	0.61	46.7	S*	12:11:12.230				m__		
TOD	0.61	46.7	SmS	12:11:14.410	-3.4			m__		
LBG	0.69	139.7	P*	12:11:05.730				md__	ML	3.0
LBG	0.69	139.7	PmP	12:11:07.200	-1.5			m__		
LBG	0.69	139.7	S*	12:11:15.070				m__		
LBG	0.69	139.7	SmS	12:11:17.840	-2.0			m__		
ABH	0.78	331.9	P*	12:11:07.510				md__		
STU	0.82	120.5	P*	12:11:08.400				mc__	ML	2.9
STU	0.82	120.5	PmP	12:11:09.500	-1.2			m__		
STU	0.82	120.5	S*	12:11:19.100				m__		
STU	0.82	120.5	SmS	12:11:21.350	-1.9			m__		
RUP	0.86	306.9	P*	12:11:08.890				md__		
BFO	0.87	170.9	P*	12:11:08.950				mdi__	ML	2.9
BFO	0.87	170.9	PmP	12:11:09.940	-1.6			m__		
BFO	0.87	170.9	S*	12:11:20.830				m__		
BFO	0.87	170.9	SmS	12:11:22.750	-1.9			m__		
TUBL	0.92	136.2	P*	12:11:10.450				md__	ML	3.0
TUBL	0.92	136.2	PmP	12:11:10.950	-1.4			m__		
TUBL	0.92	136.2	S*	12:11:22.660				m__		
TUBL	0.92	136.2	SmS	12:11:24.170	-1.8			m__		
SIND	0.98	80.2	P*	12:11:10.720				md__	ML	2.7
SIND	0.98	80.2	S*	12:11:24.590				m__		
RIVT	1.02	300.9	P*	12:11:11.470				mc__	ML	2.3
TNS	1.05	11.4	P*	12:11:12.080				m__	ML	2.9
TNS	1.05	11.4	Sg	12:11:25.841	-0.1			m_e__		
TNS	1.05	11.4	SmS	12:11:27.720	-2.0			m__		
LIBD	1.10	198.4	P	12:11:12.460				m__		
BUCH	1.10	132.0	P	12:11:13.010				md__	ML	3.3
BUCH	1.10	132.0	Pg	12:11:13.630	0.4			m__		
BUCH	1.10	132.0	Sg	12:11:28.640	1.3			m__		
BUCH	1.10	132.0	SmS	12:11:29.220	-1.8			m__		
FSH	1.10	323.8	PmP	12:11:13.860	-1.6			m__	ML	2.7
BGG	1.13	333.7	Pg	12:11:13.670	-0.2			m_e__		
BGG	1.13	333.7	Sg	12:11:28.600	0.1			m_e__		
ECH	1.16	213.5	P	12:11:13.450				m__	ML	3.0
ECH	1.16	213.5	Sg	12:11:28.706	-0.8			m_e__		
FACH	1.17	356.0	Pg	12:11:14.660	0.2			m__	ML	2.9
SPAK	1.17	157.8	P	12:11:13.890				m__		
KIZ	1.24	186.3	P	12:11:14.160				md__	ML	2.7
KIZ	1.24	186.3	Pg	12:11:15.550	-0.4			m__		
KIZ	1.24	186.3	Sg	12:11:32.900	0.9			m__		
KOE	1.26	348.6	Pg	12:11:15.810	-0.4			m_e__		
GUT	1.30	149.3	P	12:11:15.650				md__	ML	2.6
GUT	1.30	149.3	Pg	12:11:17.090	0.1			m__		
GUT	1.30	149.3	S	12:11:31.950				m__		
GUT	1.30	149.3	Sg	12:11:34.220	0.5			m__		
FELD	1.32	183.4	P	12:11:15.420				md__		
FELD	1.32	183.4	Pg	12:11:17.100	-0.2			m__		
FELD	1.32	183.4	Sg	12:11:35.330	1.0			m__		
WLF	1.37	291.0	P	12:11:16.040				m__	ML	2.4
WLF	1.37	291.0	Pg	12:11:17.338	-0.9			m_e__		
WLF	1.37	291.0	Sg	12:11:36.005	0.1			m_e__		
SLE	1.45	170.1	Pn	12:11:17.491	-1.4			m_e__	ML	2.5
SLE	1.45	170.1	Pg	12:11:19.336	-0.4			m_e__		

SLE	1.45	170.1	Sg	12:11:39.080	0.7
SOS2	1.45	170.1	P*	12:10:53.890	
SOS3	1.45	170.1	P*	12:10:53.810	
SOS6	1.45	170.1	P*	12:10:53.810	
MOF	1.49	206.4	P	12:11:17.570	
HDH	1.50	113.1	Sg	12:11:40.140	0.0
AHRW	1.51	333.9	Pg	12:11:21.110	0.2
BLI	1.58	312.0	Sg	12:11:42.130	-0.5
SISB	1.61	159.3	Pg	12:11:23.550	0.8
STB	1.63	330.0	Pg	12:11:21.250	-1.9
STS1	1.63	330.0	P*	12:10:52.730	
STS4	1.63	330.0	P*	12:10:53.940	
SULZ	1.66	180.2	Pn	12:11:20.122	-1.7
SULZ	1.66	180.2	Sg	12:11:45.512	0.2
THEF	1.70	236.4	Sg	12:11:46.700	0.1
TM22	1.70	236.4	P*	12:10:53.890	
TM50	1.70	236.4	P*	12:10:53.100	
TM51	1.70	236.4	P*	12:10:54.020	
TM52	1.70	236.4	P*	12:10:54.350	
TM53	1.70	236.4	P*	12:10:53.410	
TM54	1.70	236.4	P*	12:10:54.010	
WILA	1.85	163.3	Pg	12:11:27.249	-0.1
WILA	1.85	163.3	Sg	12:11:51.669	0.4
BALST	1.88	188.9	Pn	12:11:23.098	-1.6
DREG	1.91	321.2	Pg	12:11:24.240	-4.2
UBR	2.00	138.2	Pg	12:11:31.140	0.9
UBR	2.00	138.2	S	12:11:50.080	
UBBA	2.03	35.9	Pn	12:11:24.838	-1.9
UBBA	2.03	35.9	Sg	12:11:56.304	-0.6
GRFO	2.08	74.9	Pn	12:11:28.710	1.3
GRFO	2.08	74.9	Sg	12:11:58.137	-0.3
GRA1	2.08	74.9	Pg	12:11:31.080	-0.6
GRA1	2.08	74.9	Sg	12:11:58.384	-0.1
OBER	2.30	140.2	Pg	12:11:36.940	1.2
PLONS	2.30	158.1	Pn	12:11:30.341	-0.1
PLONS	2.30	158.1	Sn	12:11:56.596	-1.0
BUG	2.31	346.7	Sg	12:12:04.573	-1.4
FUR	2.32	115.1	Pn	12:11:30.502	-0.2
FUR	2.32	115.1	Sg	12:12:06.515	0.3
MOX	2.68	55.8	Pg	12:11:41.556	-1.4
MOX	2.68	55.8	Sg	12:12:17.767	0.2
MANZ	2.70	71.4	Pg	12:11:42.752	-0.7
MANZ	2.70	71.4	Sg	12:12:17.898	-0.5
ROTZ	2.72	76.2	Pg	12:11:44.270	0.6
ROTZ	2.72	76.2	Sg	12:12:17.305	-1.5
PLN	2.91	62.0	Pg	12:11:46.601	-0.7
PLN	2.91	62.0	Sg	12:12:23.771	-1.0
WERN	2.96	66.6	Pg	12:11:47.535	-0.7
WERN	2.96	66.6	Sg	12:12:25.350	-1.2
GUNZ	2.96	65.1	Pg	12:11:47.199	-1.1
GUNZ	2.96	65.1	Sn	12:12:13.193	0.1
GUNZ	2.96	65.1	Sg	12:12:26.421	-0.1
WERD	2.98	63.5	Pg	12:11:48.110	-0.5
WERD	2.98	63.5	Sn	12:12:13.549	0.0

_____	m_e		
T_____	m_		
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T_____	mci		
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T_____	m_		
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[illegible]

Magnitude	Err	Nsta	Author	OrigID
MD	2.7		1 LDG	90818037
ML	2.4	0.4	6 LDG	90818037
ML	1.9		BNS	90818027
ML	2.1	0.2	8 BGR	90818017
ML	1.7		BUG	90818007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ZERL	0.08	357.0	Pg	19:57:53.300	-0.8					T__				m__	ML	1.7
ZERL	0.08	357.0	Sg	19:57:54.700	-0.4					T__				m__		
LAUG	0.20	167.6	Pg	19:57:57.390	1.1					___				m_e		
BUG	0.27	112.7	Pg	19:57:58.600	1.0					TA_				m_e	ML	1.7
BUG	0.27	112.7	Sg	19:58:03.000	1.9					TA_				m__		
WTSB	0.42	353.6	Pg	19:58:00.498	-0.1					___				m_e		
WTSB	0.42	353.6	Sg	19:58:05.414	-0.7					___				m_e		
RODG	0.59	227.7	Pg	19:58:06.030	2.3					___				m_e		
HOBG	0.63	152.8	Pg	19:58:05.720	1.3					___				m_e		
IBBN	0.94	35.2	Pg	19:58:10.030	-0.2					___				m_e	ML	2.1
STB	0.95	181.4	Pg	19:58:12.080	1.6					___				m_e		
STB	0.95	181.4	Sg	19:58:25.520	2.7					___		25.2	0.39	m_e		
KLL	0.96	201.8	Pg	19:58:11.560	0.8					___				m_e		
DREG	0.97	204.9	Pg	19:58:12.180	1.3					___				m_e		
HGN	0.98	217.6	Pg	19:58:12.285	1.2					___				m_e		
HGN	0.98	217.6	Sg	19:58:26.689	3.0					___				m_e		
AHRW	1.01	172.8	Pg	19:58:13.129	1.5					___				m_e	ML	2.1
AHRW	1.01	172.8	Sg	19:58:27.625	2.9					___				m_e		
KOE	1.24	154.0	Pg	19:58:16.560	0.6					___				m_e		

HILG	1.26	185.7	Pg	19:58:17.080	0.8	---	m_e
BGG	1.37	167.5	Pg	19:58:18.640	0.2	---	m_e
TNS	1.65	142.5	Pn	19:58:23.662	1.7	---	m_e ML 2.1
TNS	1.65	142.5	Sg	19:58:46.072	1.0	---	m_e
WLF	1.93	194.0	Sg	19:58:54.275	0.2	---	m_e ML 2.1
UBBA	2.09	109.1	Pg	19:58:31.443	-0.5	---	m_e ML 1.8
UBBA	2.09	109.1	Sn	19:58:52.843	-0.2	---	m_e
UBBA	2.09	109.1	Sg	19:58:58.180	-0.8	---	m_e
MOX	3.11	105.0	Pn	19:58:42.803	1.1	---	m_e ML 2.4
MOX	3.11	105.0	Sn	19:59:18.514	1.5	---	m_e
MOX	3.11	105.0	Sg	19:59:31.423	0.1	---	m_e
BFO	3.35	163.2	Sn	19:59:25.753	3.1	---	m_e ML 2.2
BFO	3.35	163.2	Sg	19:59:38.845	-0.1	---	m_e
WERD	3.59	105.7	Pn	19:58:49.456	1.3	---	m_e
WERD	3.59	105.7	Sn	19:59:30.617	2.3	---	m_e
TANN	3.69	105.6	Pn	19:58:50.861	1.2	---	m_e

Event 90819009 S of Nancy/F

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/08/19	15:14:33.40	0.05	0.48	48.4432	6.2417	1.0	0.7	161	10.3	0.5	87	31	051			m i ke	LDG	90819019
2009/08/19	15:14:33.70	0.80	0.55	48.4890	6.2800	8.9	3.3	056	10.0f		12	7	242	0.64	2.90	m i ke	BGR	90819009

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MD	3.1	0.1	6 LDG	90819019
ML	3.0	0.2	22 LDG	90819019
ML	2.6	0.1	6 BGR	90819009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ECH	0.64	114.8	Pg	15:14:45.678	-0.3					T_				m_e	
ECH	0.64	114.8	Sg	15:14:54.184	-0.2					T_				m_e	
WLF	1.18	356.0	Pg	15:14:56.612	0.6					T_				m_e ML	2.3
WLF	1.18	356.0	Sg	15:15:11.978	0.7					T_				m_e	
BFO	1.37	95.9	Pn	15:14:57.292	-0.9					T_				m_e ML	2.6
BFO	1.37	95.9	Pg	15:14:59.659	0.1					T_				m_e	
BFO	1.37	95.9	Sg	15:15:17.588	0.3					T_				m_e	
STU	1.95	80.6	Sg	15:15:35.960	0.4					T_				m_e ML	2.7
AHRW	2.12	13.8	Sg	15:15:39.971	-1.0					T_				m_e ML	2.5
TNS	2.24	38.3	Pn	15:15:09.617	-0.3					T_				m_e ML	2.6
TNS	2.24	38.3	Sg	15:15:44.698	-0.1					T_				m_e	
OBER	2.90	110.4	Sg	15:16:06.685	0.9					T_				m_e ML	2.7

Event 90820006 Duisburg, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	
2009/08/20	19:13:06.50	0.11	0.58	51.5899	6.8024	2.4	1.8	116	1.0f		28	10	089			m i sr	LDG	90820036	
2009/08/20	19:13:06.80	1.06	0.41	51.5600	6.8760				1.0f				8	309	0.21	1.38	m i ki	BNS	90820026
2009/08/20	19:13:06.40	0.27	0.87	51.5740	6.8470	4.4	3.3	100	1.0f		19	12	082	0.39	3.72	m i ki	BGR	90820016	
2009/08/20	19:13:04.90			51.5320	6.8280				1.0f							m i ki	BUG	90820006	

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.5	0.4	5 LDG	90820036
ML	2.1		BNS	90820026
ML	2.3	0.1	6 BGR	90820016
ML	1.8		BUG	90820006

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ZERL	0.09	16.2	Pg	19:13:06.500	-0.1					T__				m__	ML 1.8
ZERL	0.09	16.2	Sg	19:13:07.900	0.1					T__				m__	
LAUG	0.19	158.2	Pg	19:13:10.640	2.1					___				m_e	
LAUG	0.19	158.2	Sg	19:13:14.150	3.1					___				m_e	
WTSB	0.43	357.6	Pg	19:13:13.633	0.5					___				m_e	
WTSB	0.43	357.6	Sg	19:13:18.772	0.1					___				m_e	
OPLO	0.60	277.7	Pg	19:13:17.421	1.2					___				m_e	
HOBG	0.63	149.8	Sg	19:13:28.020	3.0					___				m_e	
STB	0.94	179.5	Pg	19:13:25.110	2.5					___				m_e	
STB	0.94	179.5	Sg	19:13:38.120	3.4					___		42.9	0.30	m_e	
KLL	0.94	200.3	Pg	19:13:25.190	2.5					___				m_e	
KLL	0.94	200.3	Sg	19:13:39.400	4.5					___		57.2	0.20	m_e	
DREG	0.95	203.5	Pg	19:13:25.360	2.6					___				m_e	
DREG	0.95	203.5	Sg	19:13:39.660	4.7					___		105.2	0.20	m_e	
HGN	0.95	216.6	Pg	19:13:25.343	2.5					___				m_e	
HGN	0.95	216.6	Sg	19:13:39.573	4.4					___				m_e	
IBBN	0.96	36.2	Pg	19:13:23.172	0.1					___				m_e	ML 2.3
IBBN	0.96	36.2	Sg	19:13:35.523	0.0					___				m_e	
AHRW	1.00	171.0	Pg	19:13:26.294	2.5					___				m_e	ML 2.2
AHRW	1.00	171.0	Sg	19:13:40.845	4.1					___				m_e	
HILG	1.24	184.4	Sg	19:13:47.620	3.2					___				m_e	
KOE	1.24	152.4	Sg	19:13:47.870	3.4					___				m_e	
BGG	1.36	166.2	Sg	19:13:50.790	2.5					___				m_e	
TNS	1.66	141.4	Pn	19:13:36.985	2.6					___				m_e	ML 2.2
TNS	1.66	141.4	Sg	19:13:59.237	1.6					___				m_e	
WLF	1.92	193.2	Pg	19:13:42.815	1.8					___				m_e	ML 2.2
WLF	1.92	193.2	Sg	19:14:07.241	1.5					___				m_e	
MOX	3.13	104.6	Pn	19:13:56.155	1.8					___				m_e	ML 2.4
MOX	3.13	104.6	Sg	19:14:46.897	2.4					___				m_e	
BFO	3.34	162.6	Sg	19:14:51.908	0.8					___				m_e	ML 2.4
WERD	3.61	105.3	Pn	19:14:02.723	1.9					___				m_e	
WERN	3.71	107.4	Pn	19:14:03.759	1.6					___				m_e	
TANN	3.72	105.3	Pn	19:14:04.451	2.2					___				m_e	

Event 90821001 Austria

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/08/21	06:37:56.66	0.15	0.35	47.6606	15.9600	1.4	0.9	126	9.5	1.3	21	6	193			m i f e	ZAMG	90821011
2009/08/21	06:37:54.93	0.84	0.82	47.7330	16.1130	8.9	3.3	088	10.0f		19	14	244	0.63	4.14	m i k e	BGR	90821001

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.7	0.3	8 ZAMG	90821011

ML 3.0 0.4 14 BGR 90821001

Effects Loctyp Location Intensity Scale Author
F Summar 4.0 EMS ZAMG
(Clearly felt in Gloggnitz)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	0.63	219.8	Pg	06:38:06.903	0.1					T__				m_e	ML 2.5
ARSA	0.63	219.8	Sg	06:38:14.281	-0.7					T__				m_e	
MOA	1.25	276.0	Pg	06:38:19.300	0.8					T__				m_e	ML 2.5
MOA	1.25	276.0	Sg	06:38:35.743	1.1					T__				m_e	
OBKA	1.62	221.6	Pg	06:38:25.496	-0.0					T__				m_e	ML 2.4
OBKA	1.62	221.6	Sg	06:38:46.856	0.3					T__				m_e	
GEC2	1.95	305.6	Pg	06:38:31.930	0.2					T__				m_e	ML 2.9
GEC2	1.95	305.6	Sg	06:38:57.341	0.3					T__				m_e	
KBA	1.98	251.8	Pg	06:38:33.137	0.8					T__				m_e	ML 2.5
KBA	1.98	251.8	Sg	06:38:56.405	-1.6					T__				m_e	
RJOB	2.23	271.3	Sg	06:39:06.952	1.1					T__				m_e	ML 2.7
WET	2.57	304.5	Sg	06:39:15.804	-0.8					T__				m_e	ML 3.0
ROTZ	3.28	309.8	Sg	06:39:40.353	1.2					T__				m_e	ML 3.2
BRG	3.44	336.6	Sg	06:39:44.643	0.3					T__				m_e	ML 3.2
MANZ	3.47	312.0	Sg	06:39:44.727	-0.4					T__				m_e	ML 3.2
TANN	3.59	319.6	Sg	06:39:48.872	-0.2					T__				m_e	ML 3.5
GRA1	3.77	303.1	Sg	06:39:55.671	0.8					T__				m_e	ML 3.5
CLL	4.10	331.7	Sg	06:40:05.283	-0.1					T__				m_e	ML 3.6
MOX	4.14	316.4	Sg	06:40:04.650	-1.7					T__				m_e	ML 3.5

Event 90821003 Moers, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/08/21	09:04:04.50	0.10	0.65	51.4714	6.5779	2.0	1.5	132	1.0f		54	19	130			m i sr	LDG	90821043
2009/08/21	09:04:04.20	0.27	0.21	51.4990	6.5880				1.0f				9 288	0.27	1.38	m i ki	BNS	90821033
2009/08/21	09:04:03.50	0.30	0.11	51.4930	6.5860				1.0f				8 244			m i ki	GDNRW	90821023
2009/08/21	09:04:04.60	0.37	0.76	51.4880	6.5450	5.6	3.3	110	1.0f		15	7	170	0.45	1.84	m i ki	BGR	90821013
2009/08/21	09:04:03.30			51.5110	6.5720				1.0f				253	0.00	0.44	m i ki	BUG	90821003

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MD	3.2	0.4	2 LDG	90821043
ML	3.3	0.3	23 LDG	90821043
ML	2.4		BNS	90821033
ML	2.3		GDNRW	90821023
ML	2.7	0.2	5 BGR	90821013
ML	2.6		BUG	90821003

Effects Loctyp Location Intensity Scale Author
F Summar 3.0- 4.0 EMS BNS
(Felt in Moers, Kamp-Lintfort)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRHE	0.00	352.9	Pg	09:04:04.500	1.0					T__				m__	ML 2.3
BRHE	0.00	352.9	Sg	09:04:05.600	2.0					T__				m__	

[illegible]

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/08/22	22:40:32.98	0.46	0.56	51.5530	16.1140	5.6	2.2	021	1.0f		27	15	214	0.72	3.62	m i k i	BGR	90822011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
KSP	0.72	170.9	Pg	22:40:46.650	0.1					T__				m_e	ML	2.7
KSP	0.72	170.9	Sg	22:40:56.311	0.5					T__				m_e		
DPC	1.21	173.7	Pg	22:40:55.364	-0.4					T__				m_e	ML	3.3
DPC	1.21	173.7	Sg	22:41:11.357	-0.1					T__				m_e		
BRG	1.52	244.3	Pn	22:41:00.127	-0.4					T__				m_e	ML	3.4
BRG	1.52	244.3	Pg	22:41:01.309	-0.3					T__				m_e		
BRG	1.52	244.3	Sg	22:41:21.814	0.5					T__				m_e		
FBE	1.84	251.0	Pn	22:41:04.721	-0.1					T__				m_e	ML	2.5
FBE	1.84	251.0	Pg	22:41:07.330	-0.3					T__				m_e		
FBE	1.84	251.0	Sg	22:41:31.794	0.4					T__				m_e		
CLL	1.96	264.0	Pn	22:41:05.970	-0.5					T__				m_e	ML	3.3
CLL	1.96	264.0	Sg	22:41:34.733	-0.4					T__				m_e		
MORC	1.99	152.4	Pn	22:41:07.032	0.1					T__				m_e	ML	2.9
MORC	1.99	152.4	Sg	22:41:35.431	-0.9					T__				m_e		
OKC	2.14	142.3	Pn	22:41:08.545	-0.5					T__				m_e	ML	3.4
OKC	2.14	142.3	Pg	22:41:13.455	0.1					T__				m_e		
OKC	2.14	142.3	Sg	22:41:41.859	0.7					T__				m_e		

TANN	2.57	245.1	Pn	22:41:15.238	0.5	T__	m_e	ML	3.5
TANN	2.57	245.1	Sg	22:41:54.677	0.2	T__	m_e		
WERD	2.64	246.7	Pn	22:41:15.962	0.3	T__	m_e	ML	3.4
WERD	2.64	246.7	Sg	22:41:55.940	-0.9	T__	m_e		
OJC	2.68	118.4	Pn	22:41:15.264	-1.0	T__	m_e		
MOX	2.97	253.9	Pn	22:41:20.576	0.4	T__	m_e	ML	3.9
ROTZ	3.05	235.7	Pn	22:41:21.961	0.6	T__	m_e		
GEC2	3.12	210.6	Pn	22:41:22.661	0.5	T__	m_e	ML	3.4
WET	3.17	221.9	Pn	22:41:23.301	0.4	T__	m_e	ML	3.3
GRA1	3.62	241.0	Pn	22:41:29.942	1.0	T__	m_e	ML	4.0

Event 90823005 France

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/08/23	14:34:29.10	0.08	0.65	44.6180	6.8623	1.7	1.2	087	2.0	0.0	99	41	126			m i ke	LDG	90823015
2009/08/23	14:34:29.24	1.06	1.85	44.6380	6.6910	24.5	20.0	027	10.0f		13	8	311	3.45	6.38	m i ke	BGR	90823005

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MD	3.4	0.1	4 LDG	90823015
ML	3.4	0.3	41 LDG	90823015
ML	3.3	0.1	3 BGR	90823005

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
DAVA	3.45	38.8	Pn	14:35:24.331	2.4					T__				m_e	ML 3.3
DAVA	3.45	38.8	Sn	14:36:05.758	5.7					T__				m_e	
ECH	3.59	5.0	Pn	14:35:24.486	0.7					T__				m_e	
ECH	3.59	5.0	Sn	14:36:05.832	2.5					T__				m_e	
BFO	3.86	16.4	Pn	14:35:27.592	0.1					T__				m_e	ML 3.2
BFO	3.86	16.4	Sn	14:36:11.948	2.4					T__				m_e	
WTTA	4.32	50.9	Pn	14:35:35.318	1.5					T__				m_e	ML 3.4
WTTA	4.32	50.9	Sn	14:36:27.168	6.7					T__				m_e	
TNS	5.71	11.4	Pn	14:35:53.890	1.4					T__				m_e	
AHRW	5.91	2.4	Sn	14:37:03.934	6.2					T__				m_e	
GRA1	5.92	29.7	Sn	14:37:01.338	3.4					T__				m_e	
GEC2	6.38	46.3	Pn	14:36:01.720	0.1					T__				m_e	
GEC2	6.38	46.3	Sn	14:37:08.856	0.0					T__				m_e	

Event 90824005 St. Die/F, NW Vosges Mountains

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/08/24	20:55:33.30	0.06	0.61	48.3336	6.6448	1.3	1.0	155	12.0f		80	30	029			m i ke	LDG	90824015
2009/08/24	20:55:33.77	0.57	0.73	48.3910	6.7160	5.6	3.3	052	10.0f		20	12	224	0.34	3.90	m i ke	BGR	90824005

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MD	3.1	0.1	4 LDG	90824015
ML	3.0	0.3	27 LDG	90824015
ML	2.7	0.3	8 BGR	90824005

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ECH	0.34	120.6	Pg	20:55:40.101	-0.3					T__				m_e	
ECH	0.34	120.6	Sg	20:55:44.961	-0.1					T__				m_e	
BFO	1.07	92.6	Pg	20:55:54.494	0.4					T__				m_e	ML 2.3
BFO	1.07	92.6	Sg	20:56:06.651	-1.4					T__				m_e	
WLF	1.33	344.0	Pg	20:55:59.284	0.5					T__				m_e	ML 2.5
WLF	1.33	344.0	Sg	20:56:16.273	0.3					T__				m_e	
STU	1.68	76.0	Sg	20:56:28.353	1.1					T__				m_e	ML 2.9
TNS	2.15	31.0	Pn	20:56:07.981	-0.8					T__				m_e	ML 2.4
TNS	2.15	31.0	Pg	20:56:13.444	-0.9					T__				m_e	
TNS	2.15	31.0	Sg	20:56:42.004	-0.2					T__				m_e	
AHRW	2.16	6.1	Sg	20:56:42.537	0.0					T__				m_e	ML 2.4
DAVA	2.39	116.3	Pg	20:56:19.198	0.3					T__				m_e	
DAVA	2.39	116.3	Sg	20:56:50.209	0.3					T__				m_e	
FUR	3.04	92.6	Sg	20:57:11.659	1.2					T__				m_e	ML 3.2
GRA1	3.23	64.5	Pg	20:56:35.945	1.3					T__				m_e	ML 3.0
GRA1	3.23	64.5	Sg	20:57:16.139	-0.2					T__				m_e	
ROTZ	3.85	67.0	Sg	20:57:35.669	-0.4					T__				m_e	
MANZ	3.87	63.6	Sg	20:57:36.405	-0.2					T__				m_e	
MOX	3.90	52.8	Pg	20:56:46.403	-0.8					T__				m_e	ML 3.0
MOX	3.90	52.8	Sg	20:57:38.921	1.3					T__				m_e	

Event 90825007 Duisburg, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/08/25	22:03:03.50	0.10	0.47	51.5357	6.8912	1.9	1.7	121	1.0f		34	16	109			m i sr	LDG	90825047
2009/08/25	22:03:03.20	0.52	0.21	51.5580	6.8990				1.0f				7 287	0.61	1.38	m i ki	BNS	90825037
2009/08/25	22:03:03.00	0.54	0.21	51.5500	6.9010				1.0f				7 267			m i ki	GDNRW	90825027
2009/08/25	22:03:03.82	0.28	1.04	51.5440	6.8970	4.4	3.3	100	1.0f		16	9	134	0.25	2.17	m i ki	BGR	90825017
2009/08/25	22:03:02.40			51.5470	6.8860				1.0f							m i ki	BUG	90825007
(#PRIME)																		

Magnitude	Err	Nsta	Author	OrigID
ML	2.6	0.3	11 LDG	90825047
ML	1.9		BNS	90825037
ML	1.8		GDNRW	90825027
ML	2.1	0.2	6 BGR	90825017
ML	1.7		BUG	90825007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BUG	0.26	113.9	Pg	22:03:08.400	1.1					TA_				m_e	ML 1.7
BUG	0.26	113.9	Sg	22:03:12.700	2.0					TA_				m_	
WTSB	0.42	352.7	Pg	22:03:10.218	-0.1					__				m_e	
ENT	0.45	132.8	Pg	22:03:11.778	0.9					__				m_e	
ENT	0.45	132.8	Sg	22:03:18.578	1.9					__				m_e	
PLH	0.54	184.4	Pg	22:03:13.777	1.1					__				m_e	
PLH	0.54	184.4	Sg	22:03:21.247	1.5					__		113.4	0.18	m_e	
JCK	0.59	209.2	Pg	22:03:14.865	1.4					__				m_e	
JCK	0.59	209.2	Sg	22:03:22.878	1.9					__		115.1	0.20	m_e	
RODG	0.60	227.9	Pg	22:03:15.070	1.4					__				m_e	
HOBG	0.63	153.4	Pg	22:03:15.530	1.3					__				m_e	
RWB	0.64	226.0	Sg	22:03:24.762	2.1					__		53.8	0.18	m_e	

HGN	0.96	217.6	Sg	01:54:59.542	3.5	---	m_e		
IBBN	0.96	35.2	Pg	01:54:44.563	0.8	---	m_e	ML	2.2
IBBN	0.96	35.2	Sg	01:54:58.246	2.0	---	m_e		
AHRW	0.99	171.8	Pg	01:54:47.608	3.2	---	m_e	ML	2.1
AHRW	0.99	171.8	Sg	01:55:01.056	3.8	---	m_e		
HILG	1.24	185.2	Pg	01:54:50.570	1.6	---	m_e		
HILG	1.24	185.2	Sg	01:55:06.800	1.8	---	m_e		
WIT	1.29	355.1	Sg	01:55:08.589	1.8	---	m_e		
BGG	1.35	166.8	Pg	01:54:51.970	0.8	---	m_e		
TNS	1.64	141.7	Pn	01:54:56.950	2.0	---	m_e	ML	1.9
TNS	1.64	141.7	Sg	01:55:17.438	-0.5	---	m_e		
WLF	1.91	193.7	Pg	01:55:03.312	1.6	---	m_e		
WLF	1.91	193.7	Sg	01:55:27.290	0.8	---	m_e		
CLZ	2.20	80.3	Pn	01:55:03.645	1.1	---	m_e	ML	2.2
CLZ	2.20	80.3	Pg	01:55:06.398	-0.8	---	m_e		
CLZ	2.20	80.3	Sg	01:55:36.416	0.7	---	m_e		

Event 90831003 Northern Italy

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/08/31	06:25:39.09	1.08	1.11	44.0800	11.9540	16.7	13.3	163	10.0f		15	7	317	3.52	6.59	m i ke	BGR	90831003

Magnitude	Err	Nsta	Author	OrigID
ML	3.4	0.1	3 BGR	90831003

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
OBER	3.52	341.4	Pn	06:26:33.584	0.8					T_				m_e	ML 3.5
OBER	3.52	341.4	Sn	06:27:12.059	0.6					T_				m_e	
RJOB	3.70	8.8	Pn	06:26:35.231	0.0					T_				m_e	ML 3.4
RJOB	3.70	8.8	Sn	06:27:17.377	1.6					T_				m_e	
GEC2	4.91	13.5	Pn	06:26:50.267	-1.3					T_				m_e	ML 3.3
GEC2	4.91	13.5	Pg	06:27:10.833	-0.9					T_				m_e	
GEC2	4.91	13.5	Sn	06:27:44.015	-0.2					T_				m_e	
BFO	4.93	330.7	Pn	06:26:51.698	-0.2					T_				m_e	
BFO	4.93	330.7	Pg	06:27:12.801	0.7					T_				m_e	
BFO	4.93	330.7	Sn	06:27:41.810	-2.9					T_				m_e	
WET	5.10	6.8	Sn	06:27:47.157	-1.5					T_				m_e	
MOX	6.57	358.1	Pn	06:27:12.767	-1.3					T_				m_e	
MOX	6.57	358.1	Sn	06:28:21.065	-2.0					T_				m_e	
TNS	6.59	340.1	Pn	06:27:14.315	0.0					T_				m_e	
TNS	6.59	340.1	Sn	06:28:23.691	0.1					T_				m_e	

Event 90831010 Koblenz/Middle Rhine Area

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/08/31	09:46:01.10	0.05	0.19	50.2923	7.3523	1.1	0.9	090	3.0f		15	6	106			m i ke	LDG	90831030
2009/08/31	09:46:00.84	0.51	0.21	50.3160	7.3740	5.6	3.3	084	10.0f		9	6	165	0.29	2.08	m i ke	BGR	90831020
2009/08/31	09:46:01.00	0.37	0.11	50.2980	7.3700				3.2	10.8		5	132	0.09	0.81	m i ke	BNS	90831010

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.6	0.2	8 LDG	90831030
ML	1.8	0.4	4 BGR	90831020
ML	1.6		BNS	90831010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BGG	0.09	192.9	Pg	09:46:03.050	0.2					T__					
BGG	0.09	192.9	Sg	09:46:04.440	0.3					T__		1171.3	0.09	m_e	
KOE	0.26	61.0	Pg	09:46:06.370	0.4					T__					
KOE	0.26	61.0	Sg	09:46:09.890	0.5					T__					
AHRW	0.31	322.5	Pg	09:46:06.976	0.2					___				m_e	ML 1.2
AHRW	0.31	322.5	Sg	09:46:10.764	-0.0					___				m_e	
HILG	0.44	269.5	Pg	09:46:09.430	0.1					T__				m_e	
STB	0.45	311.5	Pg	09:46:09.590	0.1					T__				m_e	
HOBG	0.69	358.1	Pg	09:46:14.380	0.4					T__				m_e	
KLL	0.76	297.8	Pg	09:46:16.360	1.1					T__				m_e	
DREG	0.81	297.2	Pg	09:46:16.290	0.0					T__				m_e	
WLF	1.01	231.5	Pg	09:46:20.108	0.1					___				m_e	ML 1.8
WLF	1.01	231.5	Sg	09:46:33.386	0.4					___				m_e	
HGN	1.03	297.6	Pg	09:46:20.500	0.2					___				m_e	
HGN	1.03	297.6	Sg	09:46:33.145	-0.5					___				m_e	
BUG	1.14	356.9	Sg	09:46:36.695	-0.7					___				m_e	ML 2.3
WTSB	1.71	348.1	Sg	09:46:54.295	-0.9					___				m_e	
BFO	2.06	162.0	Sg	09:47:06.954	0.3					___				m_e	ML 2.0

DATA_TYPE ARRIVAL: REVIEWED IMS1.0

Net	Sta	Chan	Aux	Date	Time	Phase	Azim	Slow	SNR	Amp	Per	Qual	Author	ArrID
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